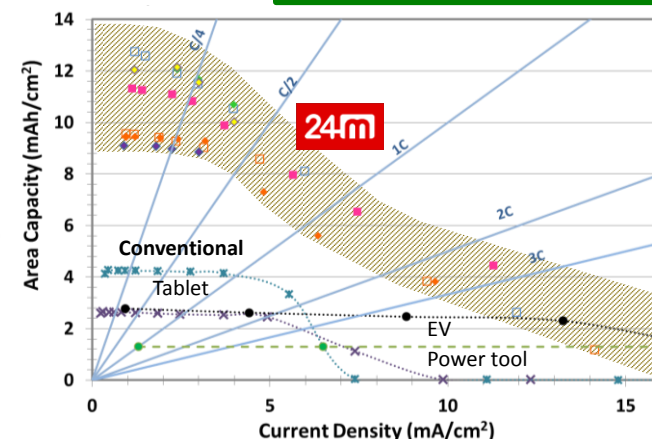
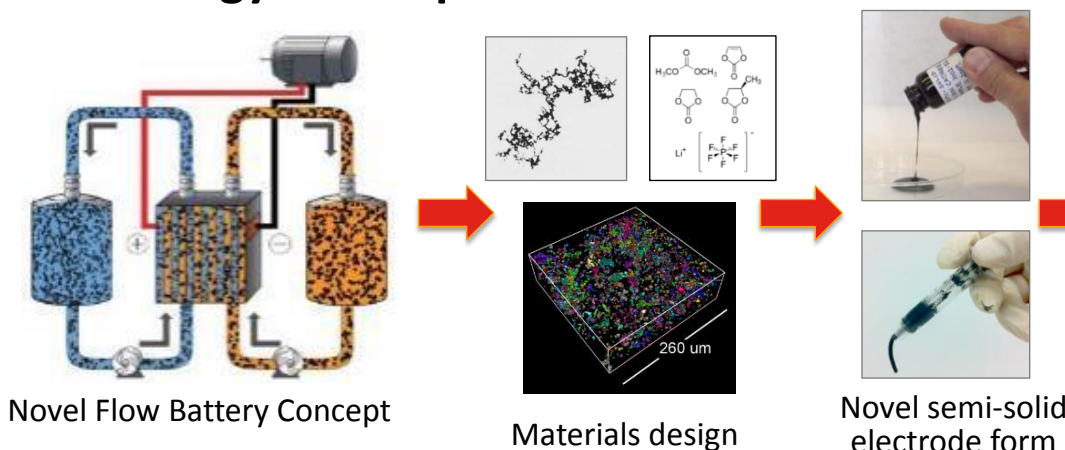


SEMI-SOLID RECHARGEABLE POWER SOURCES: FLEXIBLE, HIGH-PERFORMANCE STORAGE FOR VEHICLES AND GRID AT ULTRALOW COST (<\$0.10/Wh)



Technology Development Path



Stacks with 3x the Area Capacity of Li-ion Minimizes Inactive Materials, Enables New Product Designs

24M Progress Enabled by ARPA-E (project end 9/2013)

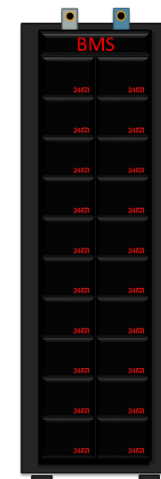
- \$52M in Follow-on Funding (\$50M from venture/strategic capital; \$2M from DOE Vehicle Technologies)
- 32,000 ft² pilot manufacturing facility (Cambridge MA)
- 50 employees (And we're hiring! Send your resume!)
- Patents: 6 issued/allowed, 58 pending

Best Attributes of Li-ion at Radically Lower Cost

- 20% higher energy density for same Li-ion actives
- >90% energy efficiency at C/2 - C/4 rate (Grid product)
- 3000 cycles (100% DOD), 18-20yr calendar life
- Improved safety, VERY damage tolerant
- Lower cost in all areas: BOM, CAPEX, COGS
- Realized in \$10-\$20M factory rather than \$500M factory



Rack-based applications



- **24M Team:** T. Tan, T. Wilder
- **MIT Team :** Y.-M. Chiang, W. C. Carter, A. Belcher, P. Hammond
- **Rutgers:** G. Amatucci